

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|------|--|---|------------------|---------|---------------------|
| S1    | 2    | "20070121051".pn.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/07/07<br>12:59 |
| S2    | 4    | ("20030117570"  <br>"7088418").PN.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/07/07<br>13:04 |
| S3    | 135  | 349/155-157.ocls. and<br>((column\$4) with (higher<br>height)) and seal\$4 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/07/07<br>13:25 |
| S4    | 94   | S3 and @ad->"20041008"   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/07/07<br>13:29 |
| S5    | 1    | "10861525"   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/07/07<br>14:13 |
| S6    | 2    | "20030025868"  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/07/07<br>14:32 |
| S8    | 2    | "7113249"  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/07/07<br>15:04 |

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|-----|------|--|---|----|----|---------------------|
| S9  | 71   | S3 and @ad<"20031016"  | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/07<br>15:05 |
| S11 | 63   | 349/155-157.ccls. and<br>((column\$4) with (higher<br>height)) and seal\$4 and<br>(spacer with (width length<br>(thickness diameter)) and<br>@ad<"20031016"  | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/07<br>15:15 |
| S13 | 19   | 349/155-157.ccls. and<br>(spacer with (groove))  | USPAT   | OR | ON | 2008/07/08<br>10:19 |
| S14 | 34   | 349/155-157.ccls. and<br>(spacer with (groove<br>recess))  | USPAT   | OR | ON | 2008/07/08<br>10:19 |
| S15 | 1648 | 349/155-157.ccls. and<br>@ad<"20031016"  | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/08<br>10:31 |
| S18 | 89   | 349/155-157.ccls. and<br>@ad<"20031016" and<br>(spacer with (convex concav<br>\$4 groove recess))  | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/08<br>10:53 |
| S19 | 280  | 349/155-157.ccls. and<br>@ad<"20031016" and (rate)   | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/13<br>16:19 |
| S20 | 67   | (US-20060007384-\$ or US-<br>20040114087-\$ or US-<br>20030137631-\$ or US-<br>20020167636-\$ or US-<br>20020075443-\$ or US-<br>20030043326-\$ or US-<br>20020080320-\$ or US-<br>20070236645-\$ or US-<br>20050099581-\$ or US-<br>20010026347-\$ or US-<br>20020075436-\$ or US-<br>20020063834-\$ or US-<br>20040114081-\$).did. or (US-<br>6724447-\$ or US-6678030-\$<br>or US-6141078-\$ or US-<br>6124917-\$ or US-6211937-\$<br>or US-6147729-\$ or US-<br>6705584-\$ or US-7304712-\$<br>or US-6493050-\$ or US- | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/13<br>16:35 |

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|-----|-----|---|---|----|----|---------------------|
|     |     | 6671025-\$ or US-6690441-\$<br>or US-7057695-\$ or US-<br>6836308-\$ or US-6906768-\$<br>or US-7277146-\$ or US-<br>6067144-\$ or US-6850309-\$<br>or US-6566154-\$ or US-<br>6356330-\$ or US-6266122-\$<br>or US-6710825-\$ or US-<br>7145619-\$).did.            |   |    |    |                     |
| S21 | 2   | 10/861525   | US_PGPUB;<br>USPAT; USOOR   | OR | ON | 2009/01/13<br>16:58 |
| S22 | 12  | 349/157.ccls. and<br>@ad<"20031016" and (rate)  | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/13<br>17:10 |
| S23 | 31  | ("20010052959"  <br>"20020005929"  <br>"20020054267"  <br>"2002171800"  <br>"20030025868"  <br>"20030048403"  <br>"20030090609"  <br>"20040201815"   "5459598"<br>  "5499128"   "5969784"  <br>"6067144"   "6287733"  <br>"6339462"   "6583846"  <br>"6850309").PN. | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/13<br>17:12 |
| S24 | 277 | 349/155-156.ccls. and<br>@ad<"20031016" and (rate)  | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/13<br>17:16 |
| S25 | 56  | S20 and @ad<"20031016"  | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/13<br>17:17 |
| S26 | 29  | S23 and @ad<"20031016"  | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/13<br>17:19 |
| S27 | 32  | 349/155-156.ccls. and<br>@ad<"20031016" and<br>((rate) with (every per))  | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/13<br>23:15 |

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|-----|-----|---|--|----|----|------------------|
| S28 | 28  | ("5610741").PN. OR ("6259500").URPN.  | US-PGPUB; USPAT; USOOR                                   | OR | ON | 2009/01/14 11:22 |
| S29 | 4   | "7088418"   | US-PGPUB; USPAT; USOOR                                   | OR | ON | 2009/01/14 11:39 |
| S30 | 28  | ("4490015"   "5668651"   "5726728"   "6061117").PN. OR ("6266122").URPN.  | US-PGPUB; USPAT; USOOR                                   | OR | ON | 2009/01/14 12:01 |
| S31 | 19  | "5537235" "20040130671"   | US-PGPUB; USPAT; USOOR                                   | OR | ON | 2009/01/14 12:51 |
| S32 | 455 | 349/155-156.ccls. and (height thickness) and (width length diameter circumference) and (rate concentration distribution density) and @ad<"20031016" | US-PGPUB; USPAT; USOOR                                   | OR | ON | 2009/01/14 12:57 |
| S33 | 676 | 349/155-157.ccls. and @ad<"20031016"  | USPAT  | OR | ON | 2009/01/14 14:20 |
| S34 | 559 | 349/155-157.ccls. and (rate concentration distribution density) and @ad<"20031016"  | US-PGPUB; USPAT; USOOR                                   | OR | ON | 2009/01/14 14:32 |
| S35 | 47  | 349/157.ccls. and (rate concentration distribution density) and @ad<"20031016"  | US-PGPUB; USPAT; USOOR                                   | OR | ON | 2009/01/14 14:33 |
| S36 | 629 | S33 not S35   | US-PGPUB; USPAT; USOOR                                   | OR | ON | 2009/01/14 14:53 |
| S37 | 17  | yokoyama-naoto.in. usukura-naru.in.   | US-PGPUB; USPAT; USOOR                                   | OR | ON | 2009/01/14 14:54 |
| S38 | 146 | 349/155-157.ccls. and (range with (height thickness)) and @ad<"20031016"  | US-PGPUB; USPAT; USOOR                                   | OR | ON | 2009/01/14 15:02 |
| S48 | 99  | 349/157.ccls. and @ad<"20031016"  | US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/08/10 13:34 |
| S49 | 2   | "5815232".pn. "20010026348".pn.   | US-PGPUB; USPAT; USOOR                                   | OR | ON | 2009/08/10 14:04 |
| S50 | 735 | 349/155-157.ccls. and (@ad<"20031016" @rlad<"20031016")   | USPAT  | OR | ON | 2010/02/25 13:28 |
| S53 | 744 | 349/155-157.ccls. and (@ad<"20031225" @rlad<"20031225")   | USPAT  | OR | ON | 2010/02/26 15:18 |

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|-----|-----|--|------------------------|----|----|------------------|
| S54 | 735 | 349/155-157.ccls. and (@ad<"20031016" @rlad<"20031016")            | USPAT                  | OR | ON | 2010/02/26 15:18 |
| S55 | 9   | S53 not S54  | USPAT                  | OR | ON | 2010/02/26 15:18 |
| S56 | 937 | 349/155-157.ccls. and (@ad<"20031225" @rlad<"20031225")            | US-PGPUB; USPAT; USOOR | OR | ON | 2010/02/26 15:21 |
| S57 | 193 | S56 not S53  | US-PGPUB; USPAT; USOOR | OR | ON | 2010/02/26 15:21 |
| S58 | 933 | 349/155-157.ccls. and (@ad<"20031016" @rlad<"20031016")            | US-PGPUB; USPAT; USOOR | OR | ON | 2010/09/14 15:27 |
| S59 | 5   | ("20030071956"   "5680189"   "6010384"   "6411360"   "6638781").PN | US-PGPUB; USPAT; USOOR | OR | ON | 2010/09/14 15:39 |

**EAST Search History (Interference)**

| Ref # | Hits | Search Query  | DBs         | Default Operator | Plurals | Time Stamp       |
|-------|------|---|-------------|------------------|---------|------------------|
| S51   | 42   | spacer.clm. and groove.clm. and diameter.clm. and (micron micrometer ".mu.m" nm nanometer).clm. | USPAT; UPAD | OR               | ON      | 2010/02/25 14:56 |
| S52   | 104  | spacer.clm. and (thickness width).clm. and height.clm. and rate.clm.                            | USPAT; UPAD | OR               | ON      | 2010/02/25 14:58 |
| S60   | 107  | spacer.clm. and (thickness width).clm. and height.clm. and rate.clm.                            | USPAT; UPAD | OR               | ON      | 2010/09/14 16:36 |
| S61   | 44   | spacer.clm. and groove.clm. and diameter.clm. and (micron micrometer ".mu.m" nm nanometer).clm. | USPAT; UPAD | OR               | ON      | 2010/09/14 16:38 |

9/14/2010 4:52:18 PM

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